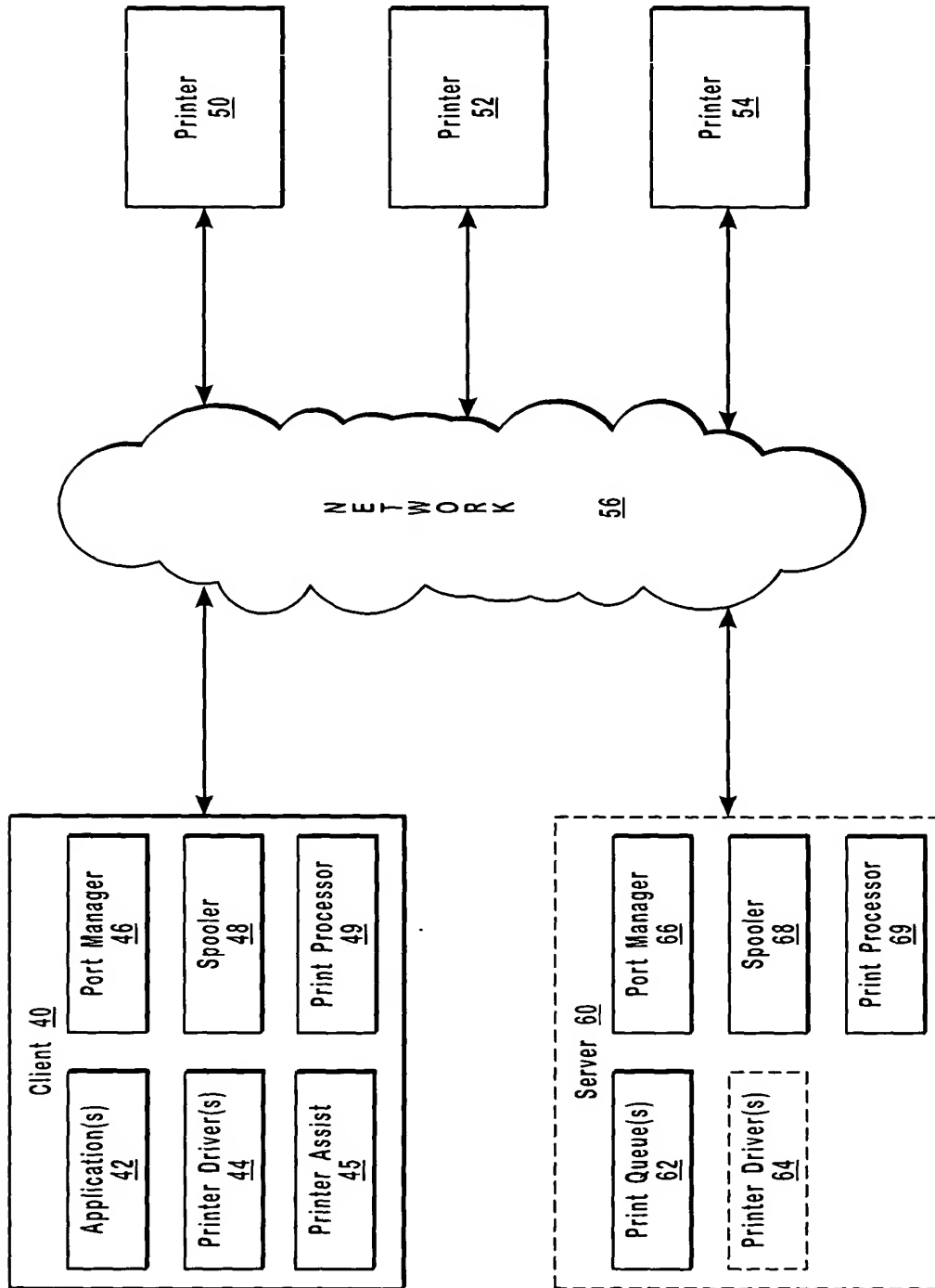Title: SYSTEMS AND METHODS FOR DYNAMICALLY
GENERATING A PRINTER MODEL DATABASE
Inventors: Andrew R. Ferlitsch
Docket No.: 10237.24

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Fig. 1

Input Device(s)
32

Output Device(s)
34

Computer Device(s)
36

Network
38

Computer Device
10

Input Interface(s)
20

Output Interface(s)
22

Network Interface(s)
24

SYSTEM BUS
12

Processing System
14

Memory
16

ROM
28

RAM
30

Mass Storage Device
Interface(s)
18

Mass Storage Device(s)
26

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Fig. 2

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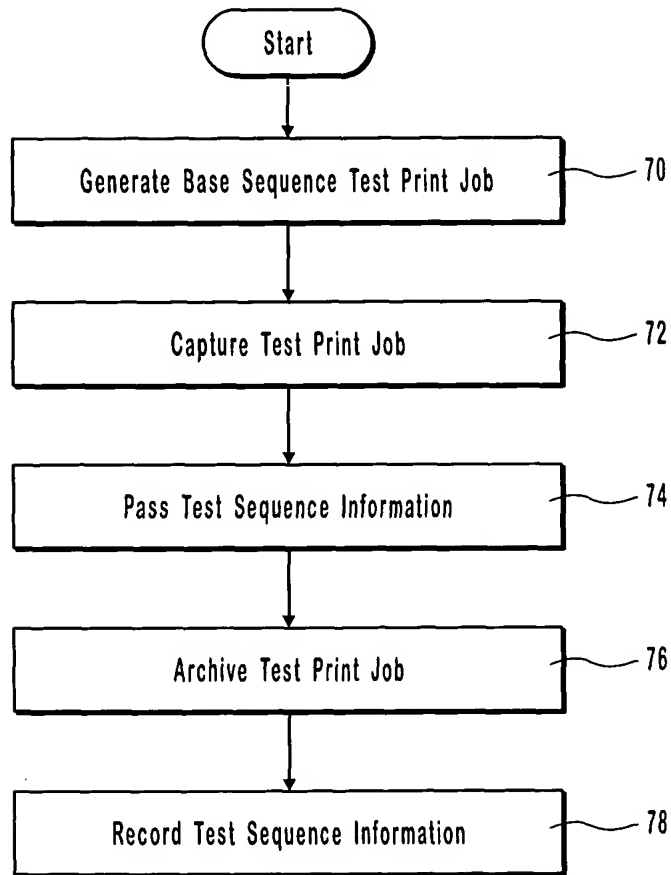
Start

Generate Base Sequence Test Print Job — 70

Capture Test Print Job — 72

Pass Test Sequence Information — 74

Archive Test Print Job — 76

Record Test Sequence Information — 78

Fig. 3

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Printer Driver

Test Job Data + Print Settings

Auto PMDB Application

Test Print Job

Spooler

Test Print Job

Auto PMDB Print Processor

Test Case

Test Print Job Archive
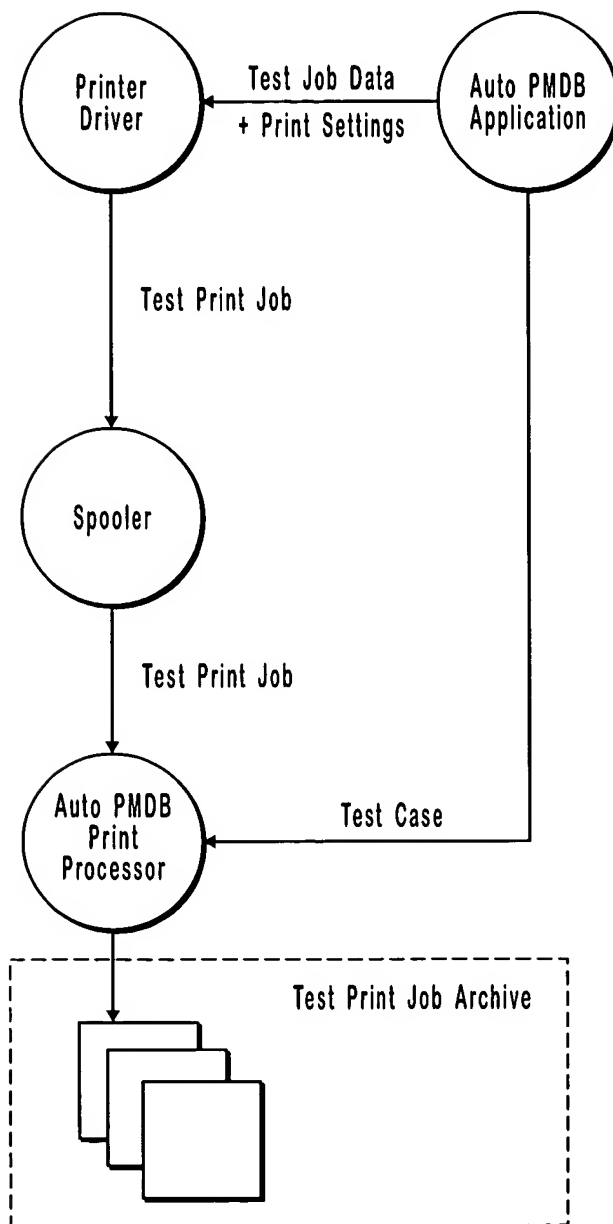
Fig. 4

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Start

80 — Printer Driver Independent Setting(s) ?

No → Provide User Interface(s) — 96

Yes

82 — Obtain Default Initialized Structure From Printer Driver

84 — Update Structure

86 — Generate Print Job Using Updated Structure

88 — Capture Test Print Job

90 — Pass Test Sequence Information

92 — Archive Test Print Job

94 — Record Test Sequence Information

96 — Provide User Interface(s)

98 — Receive Print Option Input
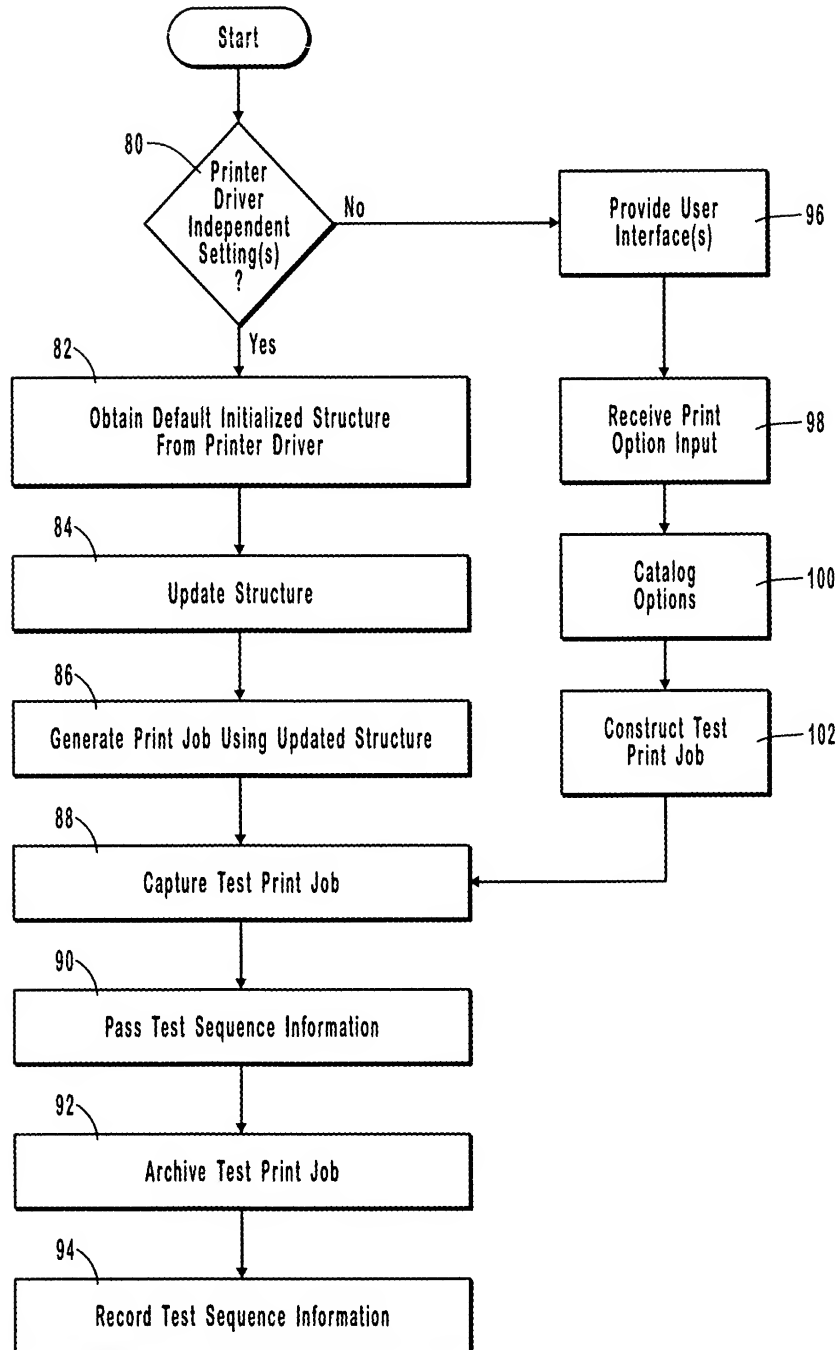
100 — Catalog Options

102 — Construct Test Print Job

Fig. 5

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```
┌─────────────────────────────────┐
│  Display Standard Options And    │
│  Printer Driver Independent      │──── 110
│  Settings                        │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│  Prompt User For Input Of Any    │──── 112
│  Additional Settings             │
└─────────────────────────────────┘
              │
              ▼
           ◇ 114
     Additional
No   Settings
       ?
           │ Yes
           ▼
┌─────────────────────────────────┐
│  Prompt User For Name Of Setting │──── 116
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│  Instruct User To Select The     │──── 118
│  Setting                         │
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│  Initiate Print Job              │──── 120
└─────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────┐
│  Construct Print Job             │──── 122
└─────────────────────────────────┘
```
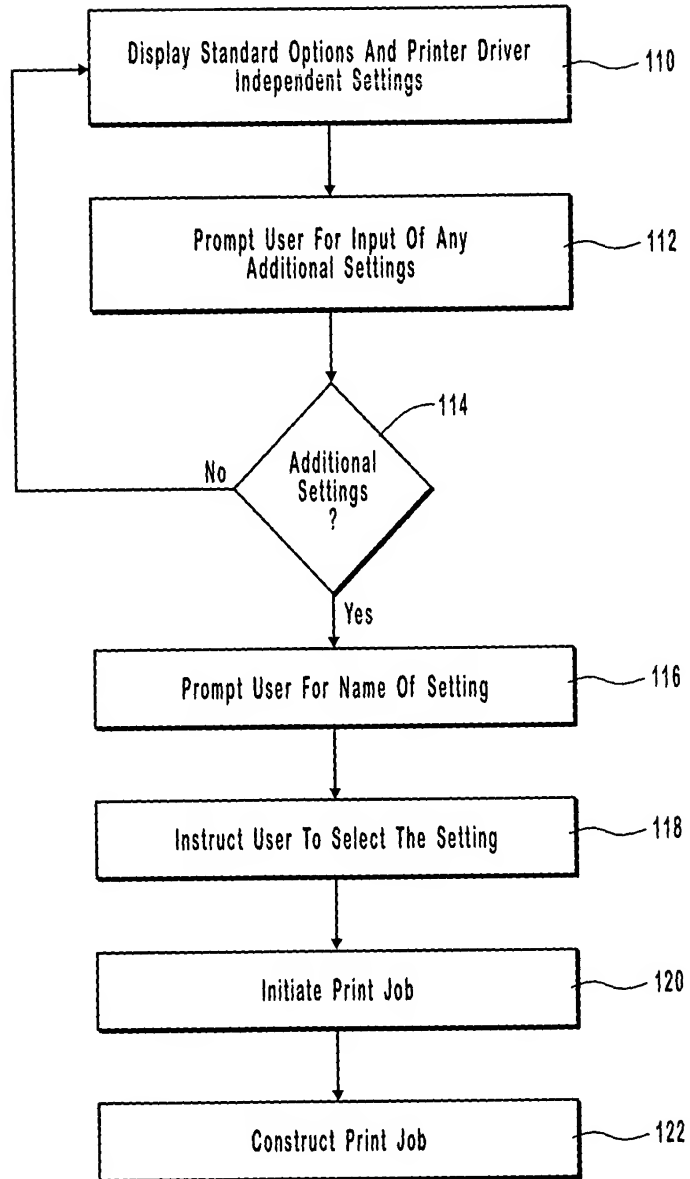
Fig. 6

Display Proprietary Option(s) —— 130

Prompt User For Input —— 132

Identify Options Used In Combination —— 134

Gather Information —— 136

Fig. 7

Title: SYSTEMS AND METHODS FOR DYNAMICALLY
GENERATING A PRINTER MODEL DATABASE
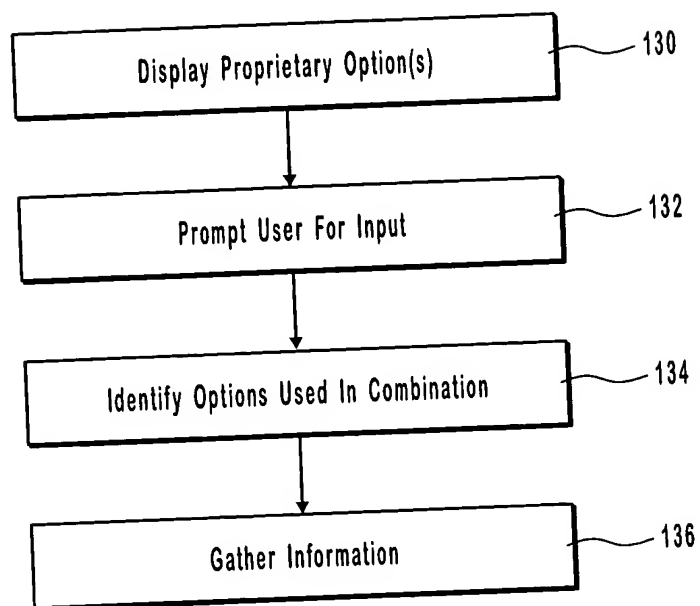Inventors: Andrew R. Ferlitsch
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User

Test Case
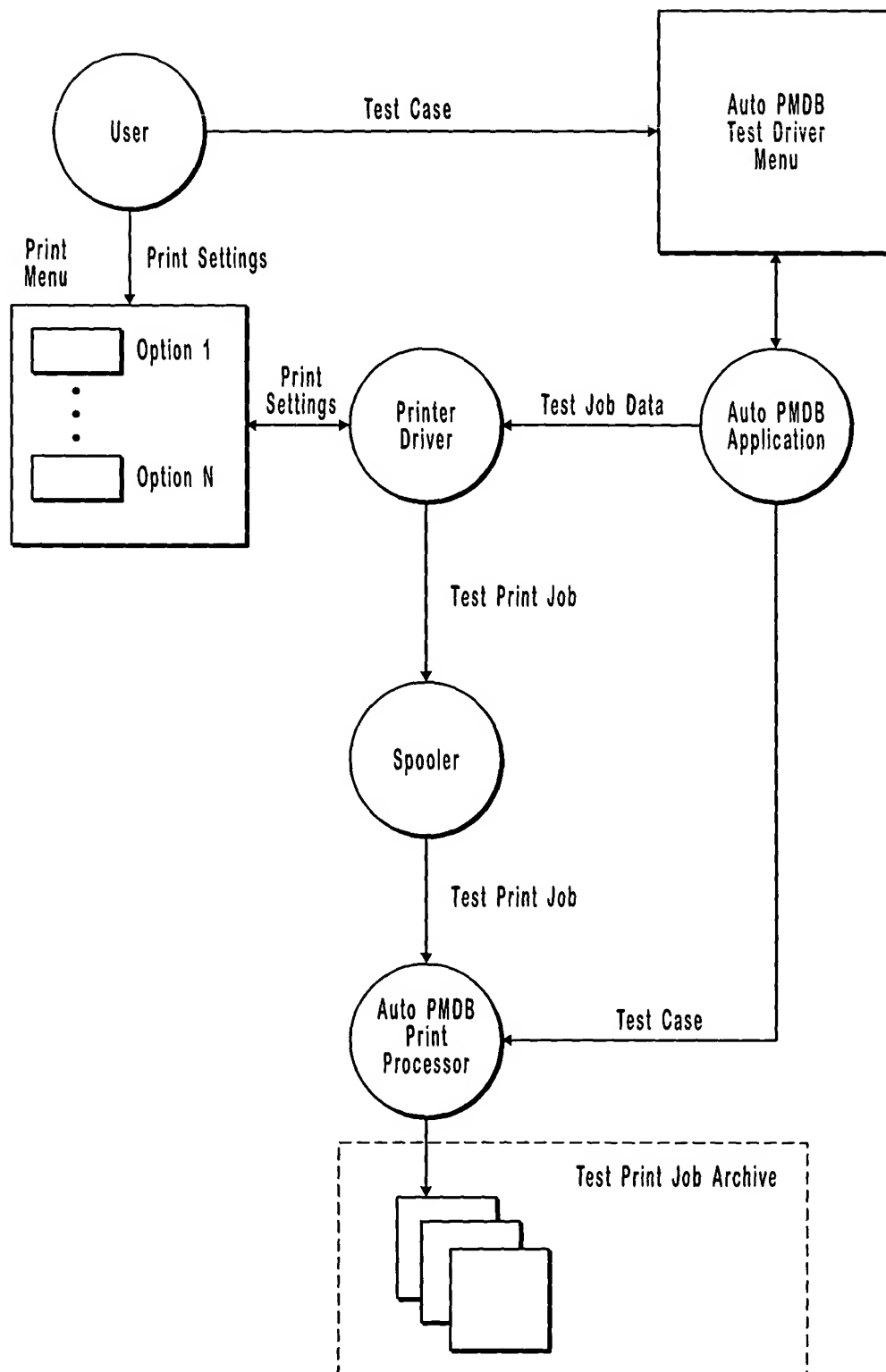
Auto PMDB
Test Driver
Menu

Print
Menu

Print Settings

Option 1

Option N

Print
Settings

Printer
Driver

Test Job Data

Auto PMDB
Application

Test Print Job

Spooler

Test Print Job

Auto PMDB
Print
Processor

Test Case

Test Print Job Archive

Fig. 8

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Fig. 9